

MARINE CORPS WARFIGHTING LABORATORY

IED Mitigation Systems will prevent loss of life and limb caused by improvised explosive devices (IEDs) and vehicle-borne IEDs (VBIEDs). Warfighters will have the capability to defeat these threats with cutting edge technologies during convoy and patrolling operations.

Background: Since the start of Operation Enduring Freedom and Operation Iraqi Freedom II, there has been an increase in insurgent use of IEDs and VBIEDs. Convoys and patrols are often targeted by insurgents with hidden IEDs alongside roadways. Due to the desert surroundings and the amount of refuge found along roads, it became advantageous for insurgents to camouflage IEDs as stray garbage or rubble. The widespread use of cell phones will allow for an unwelcome increase in the numbers of cell phone initiated IED attacks through this decoy refuse. Suicide bombers driving explosives laden vehicles crash into friendly convoys and high value targets in unexpected places through the area of operations. United States and coalition forces are vulnerable to IEDs and VBIEDs due to the inability to predict the time and place at which these attacks will occur. The Marine Corps Warfighting Laboratory, along with the Joint warfighting community, is determined to provide cutting edge technology for the defeat of these disturbing enemy IED tactics.

Deliverables:

- An IED Detonator System will provide the Warfighter with the ability to detonate IEDs before entering explosive fragmentation patterns.
- A Cell Phone Jamming System will provide selected convoy or other vehicles the ability to render useless the cellular signals meant for IED detonation.
- An Engine Arrestor System will provide the Warfighter with an area denial capability that stops VBIEDs from penetrating targeted friendly areas.

IED MITIGATION SYSTEMS

fact sheet



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